

# Jonathan Devor

4 Mevo Hanahal, Apt. 1  
Jerusalem, Israel  
9788202

Email: [jdevor.geo@gmail.com](mailto:jdevor.geo@gmail.com)  
Phone (from Israel): 054-2477619  
Phone (from USA): 011-972-54-2477619

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## EXPERIENCE:

- 2019 - current*     **Director of Research & Innovation, RoadMetric**, Jerusalem, Israel  
Managing a team for onboarding AI capabilities. Initiating and advocating “next generation” products. Responsible for company IP, patenting & standards
- 2016 - 2019*     **Algorithm Developer, RoadMetric**, Jerusalem, Israel  
Developed video analysis programs for automatically identifying traffic violations
- 2016*     **Data Scientist, Forter**, Tel-Aviv, Israel  
Built an interactive tool for visualizing and evaluating Forter’s fraud-detecting model
- 2014 - 2015*     **Senior Quantitative Researcher, WorldQuant**, Ramat Gan, Israel  
Constructed novel investment strategies for the U.S. and international markets
- 2012 - 2013*     **Postdoc in Astronomy**, Tel-Aviv University, Israel  
Developed pipelines for the automated analysis of stellar variability time series
- 2008 – 2011*     **Software Engineer, Cisco Systems**, San Jose, CA  
Created methods that enhance the quality and reliability of internet multicast video  
Member of the IPTV Visual Quality Experience (VQE) development team
- 2005 – 2006*     **Head teaching fellow** at the Harvard College, Cambridge, MA
- 2004*     **Graduate Research Assistant, Los Alamos National Laboratory**, Los Alamos, NM  
Developed automated machine-learning classification methods for stellar light curves
- 1998 – 2001*     **Software Engineer / Consultant, Inspectron Corp.**, Chelmsford, MA  
Wrote embedded software for ultra-fast optical character recognition (OCR)

## EDUCATION:

- 2008*     **Ph.D. in Astronomy**, Harvard University, Center for Astrophysics
- 2004*     **M.A. in Astronomy**, Harvard University, Center for Astrophysics
- 2002*     **B.S. in Physics and Computer Science**, The Hebrew University of Jerusalem  
(graduated Magna Cum Lauda ; average grade: 94)
- 1998*     Staff Sergeant, **SigInt Systems Training**, Unit 8200, Intelligence Corps, IDF

## PRIZES & AWARDS:

- Recognized as a **Competent Communicator** by Toastmasters International (2010)
- Team (VQE) won the **Pioneer Award** for core technology, the highest distinction given by Cisco Systems to a product development team, San Jose, CA (2009)
- 2<sup>nd</sup> place at the **U.S. Open RoboCup**, Atlanta, GA. Built 5 autonomous robots that play soccer together, as part of the Harvard-MIT RFC-Cambridge team (2006)
- Certificate of **Distinction in Teaching**, Harvard University (2003-2004)
- 6<sup>th</sup> plc. at the 3<sup>rd</sup> Int’l Collegiate **Dragon Boat Championship**, Tianjin, China (2003)
- Schulman Prize in **Physics**, Hebrew University High School, Jerusalem, Israel (1995)
- 3<sup>rd</sup> plc. in the 15<sup>th</sup> Int’l **Mathematics** Contest, Technion- Israel Inst. of Tech. (1995)
- Bronze medal at the 26<sup>th</sup> International **Physics Olympiad**, Canberra, Australia (1995)

**SELECTED  
PUBLICATIONS:**  
(peer reviewed)

- Prsa A, Guinan, E.F., Devinney E.J., Engle S.G., DeGeorge M., McCook G.P., Maurone P.A., Pepper J., James D., Bradstreet D.H., Alcock C.R., **Devor J.**, Seaman R., Zwitter T., Long K., Wilson R.E., Ribas I., and Gimenez A., *Fully automated approaches to analyze large-scale Astronomy survey data*, Astro2010: The Astronomy and Astrophysics Decadal Survey, 25 (2009)
- Devor J.**, *On the development and applications of automated searches for eclipsing binary stars*, Ph.D. Thesis, Harvard University (2008)
- Devor J.**, Charbonneau D., Torres G., Blake C.H., White R., Rabus M., O'Donovan F.T., Mandushev G., Bakos Á.G., Fűrész G., and Szentgyorgyi A., *T-Lyr1-17236: A Long-Period Low-Mass Eclipsing Binary*, The Astrophysical Journal, 687, 1253 (2008)
- Devor J.**, Charbonneau D., O'Donovan F.T., Mandushev G., and Torres G., *Identification, classifications, and absolute properties of 773 eclipsing binaries found in the TrES survey*, The Astronomical Journal, 135, 850 (2008)
- Devor J.** and Charbonneau D., *MECI: A Method for Eclipsing Component Identification*, The Astrophysical Journal, 653, 647 (2006)
- Devor J.** and Charbonneau D., *A method for eclipsing component identification in large photometric datasets*, Astrophysics and Space Science, 304, 351 (2006)
- Devor J.**, *Solutions for 10,000 eclipsing binaries in the bulge fields of OGLE II using DEBiL*, The Astrophysical Journal, 628, 411 (2005)
- Mochejska B., Stanek K., Sasselov D., Szentgyorgyi A., Bakos Á.G., **Devor J.**, Hradecky V., Marrone D., Winn J., Zaldarriaga M., *Planets in Stellar Clusters extensive search. III. A search for transiting planets in the metal-rich open cluster NGC 6791*, Astronomical Journal, 129, 2856 (2005)
- Dekel A., Arad I., **Devor J.** and Birnboim Y., *Dark-halo cusp: Asymptotic convergence*, The Astrophysical Journal, 588, 2, 680 (2003)
- Dekel A., **Devor J.** and Hetzroni G., *Galactic halo cusp-core: Tidal compression in mergers*, Monthly Notice of the Royal Astronomical Society, 341, 1, 326 (2003)
- Dekel A., **Devor J.** and Arad I., *Galactic halo cusp versus core: Tidal effects in mergers*, ASP Conference Proceedings, Astronomical Society of the Pacific, 283, 307 (2002)

**PATENTS:**

- Devor J.**, Frolov M., Muchnik I., Zlotogorski H., *Training a machine to recognize a motor vehicle driver using a mobile device*, GB1908986.1 (pending UK 2019)
- Devor J.**, Bensimhoun M., Muchnik I., Silvera E., *Detection and documentation of speeding violations*, PCT/IL2019/050937, 1813709.1, 16/546329 (pending PCT, UK, USA 2018)
- Devor J.** and Kirkpatrick S., *Method and device for measuring an electrical current flowing in a wire and/or the wire's location*, Hebrew University, 60/434,636 (accepted USA 2003)
- Zhang X., Linares G., **Devor J.**, Unni M., and Berquist K., *Method for embedding non-intrusive encoded data in printed matter*, Inspectron Corp., 6,354,630 (accepted USA 2002)

**TECHNICAL  
SKILLS:**

Programming Languages: Python, C/C++, Java, Perl, Matlab, Derive, IDL  
Development Experience: Algorithms, optimization, numerical integration, data mining, image analysis, signal processing (DSP), simulations, modeling and visualizations.

**LANGUAGES:**

Fluent in both English and Hebrew

**AFFILIATIONS  
& INTERESTS:**  
(current and past)

Home page: [www.jdevor.com](http://www.jdevor.com)  
Top Writer on Quora.com  
Member of Toastmasters International  
Member of the American Astronomical Society  
Member of the American Association for the Advancement of Science  
Other interests include hiking, traveling, scuba diving, and creating/solving math puzzles